

Organizational & Intermediate Level Wire Tester Acquisitions (FY-07)

ATS Management Board Meeting
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Warner-Robins AFB

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Objectives

- Provide an overview of PMA-260 FY-07 acquisition plans for:
 - A Hand held wire tester for the Organizational maintenance level
 - An Automatic Wire Test Set for the Intermediate maintenance level

Outline

- NAVAIR Aircraft Wiring Support Equipment Commodity Overview
- O-Level hand held A/C wire tester
 - Requirements
 - Acquisition Strategy
 - POA&M
- I-Level Automatic Wire Test Set (AWTS)
 - History
 - Requirements
 - Acquisition Strategy
 - POA&M

Aircraft Wiring SE Commodity

- AWSEC mission is to provide technical, logistic, production, procurement and in-service support to NAVAIR relevant to O- and I-level Aircraft Wiring Support Equipment.
- Supports PMA-260 in the acquisition of Common Support Equipment, including wiring braiding machines, wire processor machines, 1553 Data Bus Network Tester, and new O- & I-level wiring testers.
- Supports multiple platform PMAs in the acquisition of peculiar aircraft wiring repair tool sets and interface adapter cable

FY2005 Defense Standardization Program Achievement Award Winner for development of the Aircraft Wiring Information System (AWIS), a comprehensive database that has allowed standardization of repair tooling, specifications and processes across all Navy and Marine Corps aircraft weapons platforms.

Organization-Level Hand Held Aircraft Wiring Tester



O-Level Hand Held Wire Tester SE Requirement

- Maintenance Requirement
 - Existing Tektronix 1502 Time Domain Reflectometer is obsolete w/o replacement
 - Unscheduled wire maintenance (troubleshooting)
 - Distance to fault detection for both coax (RF) cable, and smaller gauge (10-22) wire

O-Level Wire Tester Requirements

- Technical requirements include
 - Single-ended operation
 - Small footprint (i.e., hand held, tablet)
 - Reflectometry technology
 - Immediate analytical feedback
 - Intermittent fault application
 - Appropriate MIL-PRF-28800F Class 1 and MIL-STD-810F testing
- Logistics support requirements include
 - Technical Manuals
 - Training
 - Maintenance planning
 - Calibration
 - Supply support / PBL option

Acquisition Strategy

- Full and open competition
- Performance specification to incorporate Fleet and Engineering evaluation data/lessons learned
- Source selection plan will include Fleet participation at a pre-award Operational and Maintenance Demonstration (OMD)

O-Level Tester POA&M

- Market Research ongoing
- Input from Navy R&D efforts provided Feb 2006
- Requirements Analysis Document (RAD)/
Performance Specification
 - Draft Dec 2005
 - Final March 2006
- Procurement Package (RFP, SOW, CDRLs, SSP)
 - Completed by July 2006
 - RFP released in August 2006
- Proposal Evaluations
 - October-November 2006
- Contract Award scheduled for January 2007
- Four year delivery schedule beginning first
quarter FY-08

Intermediate Maintenance Level Automatic Wire Test Set (AWTS)

History of Wire Test Set (WTS)

- The Aircraft Wiring Support Equipment Commodity (AWSEC) procured the Wire Test Set (WTS) in 1994
- Used by the Intermediate Maintenance Activity (IMA) to fabricate and repair wiring
- Wire Test Set consists of
 - Test Control Unit, P/N 3174AS200
 - Switching Unit, P/N 3174AS300



Present WTS Issues and Sustainment

- Several of the components that comprise the WTS are no longer being manufactured or supported by their original vendors
- The ability to effectively perform wire harness testing at the I-Level has been negatively impacted due to the increasing number of WTS obsolescence issues
- To help sustain equipment operation of the WTS until its replacement, the WTS has been adopted into the Support Equipment Reclamation Program (SERP)

I-Level AWTs SE Requirement

- Maintenance Requirement
 - Testing and ready for issue (RFI) of cables for aircraft installation and/or SE interface
 - Aids in assembly of cables
 - Major problem with parts failing on existing WTS with no OEM replacement parts
 - Replacement for existing WTS

I-Level AWTs Requirements

- Technical requirements include
 - Up to 2,000-point automated switching
 - Reuse existing test program sets (TPSs) and adapter/interface cables
 - “Bench-top” type footprint (similar to existing WTS)
 - Detect fault location (including branched circuits)
 - Intermittent fault detection
 - Learn cables
 - TPS generation software
 - Data storage, reporting and recall capability
 - Appropriate MIL-PRF-28800F Class 3 and MIL-STD-810F testing
 - Open architecture to allow for future expansion (minimize parts obsolescence)

I-Level AWTTS Requirements (con't)

- Logistics support requirements include
 - Technical manual
 - Training
 - Maintenance planning
 - Calibration
 - Drawings
 - Supply support / PBL likely

Acquisition Strategy

- Full and open competition
- Performance specification to incorporate Fleet and Engineering evaluation data/lessons learned
- Source selection plan will include Fleet participation at a pre-award Operational and Maintenance Demonstration (OMD) to be conducted at vendor or NAVAIR designated sites

I-Level AWTs POA&M

- Market Research ongoing
 - Initial Request for Information (RFI) was announced in the FEDBIZOPPS, July 2004
 - Industry Day held May 2005
 - Vendor Demonstrations / Presentations
- Requirements Analysis Document (RAD)/Performance Specification
 - Draft Dec 2005
 - Final March 2006
- Inputs from R&D efforts
 - Technical papers, lab and field evaluations
 - Require inputs by 31 Jan 2006

I-Level AWTs POA&M (con't)

- Procurement Package (RFP, SOW, CDRLs, SSP, etc)
 - Completed by June 2006
- RFP release July 06
- Proposal Evaluations
 - Proposals, questions & answers, OMDs, negotiations, etc.
 - Completed by October 2006
- Contract Award scheduled December 2006
- Three year delivery schedule starting in late calendar 2007

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Upcoming Events

*NAVAIR Cable Harness Repair or
Manufacturing Equivalence (CHROME)
Customer Feedback Conference*

02-04 May 2006

The Ramada Inn & Conference Center
5700 Atlantic Avenue
Virginia, Beach, VA